



## The potential financial costs of climate change on health of urban and rural citizens: A case study of *Vibrio cholerae* infections at Bukavu Town, South Kivu Province, Eastern of Democratic Republic of Congo

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### Abstract:

Background: Cholera epidemics have a recorded history in eastern Congo dating to 1971. A study was conducted to find out the linkage between climate variability/change and cholera outbreak and to assess the related economic cost in the management of cholera in Congo. Methods: This study integrates historical data (20 years) on temperature and rainfall with the burden of disease from cholera in South-Kivu province, eastern Congo. Results: Analyses of precipitation and temperatures characteristics in South-Kivu provinces showed that cholera epidemics are closely associated with climatic factors variability. Peaks in Cholera new cases were in synchrony with peaks in rainfalls. Cholera infection cases declined significantly (P

**Source:** <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3881617>

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Extreme Weather Event, Temperature

**Extreme Weather Event:** Flooding

**Temperature:** Fluctuations

#### Geographic Feature:

resource focuses on specific type of geography

Rural, Urban

#### Geographic Location:

resource focuses on specific location

Non-United States

**Non-United States:** Africa

**African Region/Country:** African Country

**Other African Country:** Democratic Republic of Congo

# Climate Change and Human Health Literature Portal

## **Health Impact:**

specification of health effect or disease related to climate change exposure

Infectious Disease

**Infectious Disease:** Foodborne/Waterborne Disease, Vectorborne Disease

**Foodborne/Waterborne Disease:** Cholera, Schistosomiasis, Other Diarrheal Disease

**Foodborne/Waterborne Disease (other):** Typhoid; worms; Hepatitis; Dysentery

**Vectorborne Disease:** Fly-borne Disease, Mosquito-borne Disease

**Fly-borne Disease:** Other Fly-borne Disease

**Fly-borne Disease (other):** Filariasis

**Mosquito-borne Disease:** Malaria

## **Medical Community Engagement:**

resource focus on how the medical community discusses or acts to address health impacts of climate change

A focus of content

## **Mitigation/Adaptation:**

mitigation or adaptation strategy is a focus of resource

Adaptation

**Population of Concern:** A focus of content

## **Population of Concern:**

populations at particular risk or vulnerability to climate change impacts

Children

## **Resource Type:**

format or standard characteristic of resource

Review

## **Timescale:**

time period studied

Time Scale Unspecified

## **Vulnerability/Impact Assessment:**

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content